

GEUTEBRÜCK

G-Core
Software Version 7.2

Release Notes

Table of contents

Release Notes 4

Feature Description5

System Requirements..... 7

ONVIF S Profile and T Profile Features 9

G-Core Release 7.2

Type	Modul	Detailed Description
Bugfix	Axis BWC plugin	Fixed an issue with transferring Axis BWC videos with newer firmware.
Bugfix	G-Core RTSP	The UDP buffer was increased to ensure a more stable connection.
Bugfix	G-View with E5 plugin	Fixed a bug that causes G-View to crash when importing a GBF or when DSS is enabled in the E5 plugin and a VCA event is triggered on a linked channel.
Bugfix	G-Core VCA Drawing	An issue causing drawing of frames not working on an E5 plugin when DSS (dynamic stream selection) is used.
New Feature	G-Core Axis IPC Plugin	With this feature Axis camera events can be mapped to each available G-Core action. To enable the migration possibility into existing systems, a compatibility mode can be set for VMD 2, 3 and 4 as well as for the ONVIFNotifications. Depending on the original setting, the corresponding mode is preset.
New Feature	ONVIF Plugin	Depending on the viewer size the video stream can now be selected dynamically (DSS) with ONVIF cameras. This decreases the required performance of the device because stream size is optimized related to the viewer size.
New Feature	G-Core ONVIF Plugin / G-View	The feature "Area zoom" can now be used in G-View together with an ONVIF channel.
New Feature	Softdongle	The binding criteria of the Softdongle have been changed to improve reliability.
New Feature	G-Core LPR	The LPR library has been updated to improve LPR performance and recognition quality. Recognition for Monaco license plates has been added.
New Feature	G-Core Perimeter+ Integration	G-Core can now process metadata from our new perimeter surveillance system "Perimeter+" and be used to mark objects in the video. Both in live video and in the recording, objects are outlined in color and motion paths are drawn. This enables the user to quickly recognize people or vehicles, for example, even if they are very small in relation to the entire image section. The high camera resolution is retained so that details can also be recognized when zooming in.

Perimeter+ Integration

G-Tect/Perimeter+ combines the advantages of two video analysis worlds: classic pixel-oriented motion detection detects even the smallest changes in the image, while AI-supported object classification assesses the situation in detail - all in real time!

With G-Core integration, moving people and vehicles are represented in the high-resolution video by bounding boxes and trajectory paths.

LPR performance improvements

G-Core LPR now achieves better performance and recognition, e.g. for two-line license plates.

Axis Plugin - Event Mapping

To enable the migration possibility into existing systems, a compatibility mode can be set for VMD 2, 3 and 4 as well as for the ONVIFNotifications. Depending on the original setting, the corresponding mode is preset.

Dynamic history

With version 7.2, two new generic action parameters and the calculation of a dynamic prehistory find their place in G-Core.

This enables the correct temporal linking of video material with metadata from external systems, regardless of when the data arrives in G-Core due to a time offset.

Dynamic history can be configured per event in G-Set.

Web API 1.5

Quality & Stability improvements General quality and stability improvements were made.

G-View Mobile App - receiving Alarms Version 1.5 is the basis for the G-View Mobile App 1.0.0 and the associated feature "Receiving alarms with in-app notification".

New endpoints

New endpoints have been implemented:

Resources was expanded to include the query of:

1. /api/1/Resources/ParameterSets/PZ/{mediaChannelId} provides the privacy data of the media channel
2. /api/1/Resources/MediaChannels provides the location of the camera, if stored in G-Set
3. /api/1/Resources/MediaChannels provides the privacy data when requested
4. /api/1/Resources/ServerLocation provides the coordinates of the server, if stored in G-Set

Login was expanded to include the query of:

1. /api/1/Login/UserRights provides the user rights of the querying user

Statistics was expanded to include the query of:

1. /api/1/Media/Statistics/Streams provides the currently connected streams

For more details about the new endpoints please visit the swagger documentation.

ONVIF plugin improvements

The ONVIF plugin now supports DSS Lite for dynamic switching of streams in the viewer. Additionally, the ONVIF plugin now supports area zoom.

More information can be found in our G-Core online help!

G-Core 7.2 System Requirements

SERVER:

Storage for video	minimal: 50 GB, recommended at least 1 T B
Storage for installation	minimal 50 GB, recommended: 1 28 GB
RAM	min. 8 GB
CPU recommendation	see table below
Network Interface	min. 1 G bit/s
Operating System	Windows 10 LTSC (1607), (1809), (21H2) Windows Server 2016 (1607) Windows Server 2019 (1809)
Microsoft SQL Server	SQL Server 2014 & 2019, SQL Server 2014 Express & 2019 Express (Microsoft SQL Server Express supports 1 physical processor, 1 GB memory, and 10 GB storage)
Microsoft .Net Version	.NET Framework 3.5 & . NET Framework 4.6.1
Graphics card	Intel graphics card (only for hardware decoding)

CLIENT:

SDK: same requirement as the client

Storage for installation	minimal: 5 G B
RAM	min. 8 GB
CPU recommendation	see table below
Network Interface	min. 1 G bit/s
Operating System	Windows 10 LTSC (1607), (1809), (21H2) Windows Server 2016 (1607) Windows Server 2019 (1809)
Microsoft .Net Version	.NET Framework 3.5 & .NET Framework 4.6.1
Graphics card	Intel graphics card

These drivers are not necessarily part of the G-Core installer. You may find an updated list in our Knowledge Base:
<https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html>

G-Core 7.2 System Requirements

HARDWARE RECOMMENDATION:

We recommend the following CPU and Intel graphic drivers. We cannot guarantee functionality and performance without the use of recommended drivers. GPU drivers are like any software, each new release can introduce performance and stability issues. If a problem appears at one point, we recommend to try to use a tested version.

View Stations:

For older hardware please disable the "Direct 3D-11 Rendering" setting in the general section of the G-View settings.

DIRECT3D-11 rendering activated:

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version
12th Generation Intel® Core™	Alder Lake	Core 12000 Serie Processor	Intel® UHD Graphics 770	31.0.101.4091

DIRECT3D-11 rendering NOT activated:

Product Collection	Code Name	Processor Number	Processor Graphics	Graphic Driver Version
10th Generation Intel® Core™ i3	Comet Lake	Core 10300 Serie Processor	Intel® UHD Graphics 630	27.20.100.9466 DCH (Win 10 21H1)
9. Generation Intel® Core™ i3, i5, i7, i9 Processors		Core 9100 Serie Processor Core 9500 Serie Processor Core 9700 Serie Processor Core 9900K Serie Processor Xeon E-2244G Processor	Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics 630 Intel® UHD Graphics P630	27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win 10 1809) 27.20.100.9168 DCH (Win Serv 2019 1809)
8. Generation Intel® Core™ i3, i5, i7 Processors	Coffee Lake	Core 8000 Serie Processor	Intel® UHD Graphics 630	25.20.100.6519 DCH (Win 10 1809)
7th Generation Intel® Core™ i3, i5, i7 Processors	Kaby Lake	Core i3- 7100TE Processor 3.9Ghz Core i5- 7500 Processor 3.4Ghz Core i7- 7700 Processor 3.6Ghz	Intel® HD Graphics 630	26.20.100.7263 (Win 10 1809) 26.20.100.7584 (Win 10 1809, DCH)
6th generation Intel® Core™ i3, i5, i7 Processors	Skylake	Core i3- 6100TE Processor 2.7Ghz Core i5- 6500 Processor 3.2Ghz Core i7- 6700 Processor 3.4Ghz	Intel® HD Graphics 530	27.20.100.8682 (Win 10)
Intel® Xeon® Processors E3 v6 Familie	Kaby Lake	Intel XEON E31275V6	Intel® HD Graphics P630	21.20.16.4678 (Win Serv 2016, Legacy)
Intel® Celeron® Processors J Serie	Gemini Lake	Intel Celeron J4105 2.5 Ghz	Intel® UHD Graphics 600	27.20.100.9168 (Win 10 1809)

These drivers are not necessarily part of the G-Core installer. You may find an updated list in our Knowledge Base:

<https://support.geutebrueck.com/de/search/detail/intel-gpu-driver-recommendation.html>

Geutebrück supports the following features of the Onvif S Profile (Client) and the Onvif T Profile (Client) :

Features			
General		S	T
System Settings		C	C
User Authentication	WS-Username Token	M	
	Digest Authentication	M	M
User Handling		C	C
Query Services and Capabilities		M	M
Device Discovery		C	M
Network Configuration		C	M
Zero configuration		C	
IP Address Filtering		C	
NTP		C	C
Media Profile Configuration		C	C
Media Transport	(1) RTP/UDP	M	M
	(1) RTP/RTSP/HTTP/TCP	M	M
	RTP/RTSP/HTTPS/TCP	M	C
	RTP/UDP Multicast	C	C
Video			
Video Streaming	MJPEG	M	
	MPEG4	C	
	H.264	C	M
	H.265		M
Video Encoder Configuration		M	M
Video Source Configuration		C	C
Media Profile Streaming Ready out of the box		C	M
Video Streaming	RTSP/RTP	M	M
Imaging Settings			M

Features			
Events		S	T
Event Handling	Pull-point	M	M
	Base-notification	M	
Motion Alarm Events			M
Tampering Event			M
Audio			
Audio Streaming	G.711	C	C
	AAC	C	C
	G726	C	C
Audio Encoder Configuration		C	C
PTZ			
PTZ Move	Absolute	C	M
	Continuous	C	M
	Relative	C	
PTZ Presets		C	C
PTZ – Home Position		C	C
PTZ Configuration		C	C
Additional			
Relay Outputs		C	C
Auxiliary commands		C	C
Focus Control			C
Digital Inputs			C
Metadata Configuration		C	C
Metadata Streaming			C

(1) Client must support at least one of UDP and HTTP.

Function List use the following abbreviations:

M: Mandatory

C: Conditional

= Feature is supported.

= Feature is not supported.

Technical alterations reserved.

GEUTEBRÜCK GmbH

Im Nassen 7-9 | D-53578 Windhagen | Tel. +49 (0)2645 137-0 | Fax-999 | E-mail: info@geutebrueck.com | Web: www.geutebrueck.com